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THE INSECT PEST SURVEY BULLETIN

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BUREAU OF
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I N S E C T P E S T S U R V E Y B U L L E T I N

Vol. 17 Supplement to Number 3 May 10, 1937

THE TWO BROODS OF PERIODICAL CICADA SCHEDULED TO APPEAR IN 1937

Brood XXIII of the periodical cicada, the largest brood of the 13-year race, will occur throughout the Mississippi and lower Ohio River Valleys from southern Indiana and Illinois, and northern Missouri to southern Mississippi and Louisiana.

The best authenticated records of this brood are from western Tennessee and northern Mississippi, although its occurrence is well established throughout the remainder of its area. There is also a small and somewhat isolated center in northwestern Georgia.

Following is a list of the records available to the Insect Pest Survey. Under each State the counties (underlined) are arranged alphabetically and under each county the towns are arranged alphabetically. The numerals following a town indicate the year or years the brood was recorded from that town; those after the county indicate that the record was for the county and gave no specific town. Counties or towns without dates are from records of the brood without any definite year of appearance.

ALABAMA:

Barbour, Hawkinsville 1885; Calhoun, Duke 1885, 1898; Etowah.

ARKANSAS:

Arkansas, Arkansas Post 1898, Gillett 1898, Payer 1885, Stuttgart 1898; Ashley, Metoka 1898; Calhoun, Woodberry 1898; Carroll, Carrollton 1898; Chicot, Carmel 1898, Dermott 1898, Grand Lake 1885, 1898, Lake Village 1898, Luna Landing 1885; Clark, Smithton 1898; Columbia 1885; Craighead, Gilkeson 1898, Jonesboro 1898; Crawford, Alma 1898; Crittenden, Clarketon 1898; Cross, Cherry Valley 1872, 1885, 1898, Vanndale 1898, Wynne 1898; Desha 1885, Dumas 1898, Rotan 1898; Franklin, Charleston 1885; Fulton, Afton 1898, Mammoth Spring 1875, 1898; Garland 1898; Hot Spring, Ops 1898, Sanders 1898; Howard, Picayune 1898; Izard, La Crosse 1885; Jackson 1885; Jefferson 1885, Altheimer 1898, Pine Bluff 1898, Redfield 1898; Lafayette, Buckner 1898; Lee, Haynes 1898, La Grange 1898, Marianna 1924, Phillips 1898, Sylarsville 1898, Vineyard 1885, 1898; Lincoln, Cornerville 1898; Logan, Hobart 1898, Morrison Bluff 1898; Lonoke, Cobbs 1898, Lonoke 1898; Marion, Yellville 1885, 1898; Mississippi, Athelstan 1898, Chickasawba 1898, Osceola 1885; Monroe, Holly Grove 1898, Roe 1898; Nevada, Falcon 1885; Newton, Boxley 1898; Phillips 1859, 1885, Helena 1898, 1911, Northcreek 1898; Pike, Murfreesboro 1898; Poinsett, Harrisburg 1898, Weiner 1898; Prairie 1885,

De Valls Bluff 1898, Hazen 1898; Pulaski, Hensley 1898, Jacksonville 1898, Little Rock 1885; Saint Francis, Forrest City 1898, Wheatley 1898; Saline 1885; Searcy 1885; Sebastian, Lavaca 1898; Sharp, Center 1898; Union, New London 1898; Van Buren, Sang 1898; Washington, West Fork 1898; White, Bradford 1885; Woodruff, Hunter 1885, 1898, McCrory 1898; Yell, Alberta 1898.

GEORGIA:

Chatham, Savannah 1924; Cobb, Marietta 1885; Coweta 1859, 1885; De Kalb 1846, 1859, 1885; Gwinnett 1846, 1859; Meriwether 1885; Newton 1846, 1859, 1885.

ILLINOIS:

Alexander, Willard 1898; Bond 1898; Clark, Marshall 1898; Crawford, Oblong 1898; De Witt, Clinton 1911, De Witt 1898, Hallsville 1898, Wapella 1898; Edgar, Kansas 1898, Scotland 1898; Edwards, Albion 1898, Grayville Junction 1898; Effingham, Sumner 1898; Gallatin, Shawneetown 1898; Hardin, Karbers Ridge 1898, Cave in Rock 1898; Jackson, Carbondale 1885, 1898, 1924, Elkville 1898, Makanda 1924, Murphysboro 1885; Jasper, Bogota 1898; Jefferson, Bluford 1898; Johnson 1898; Lawrence, eastern part 1924; (?) McLean, Randolph 1898; Macoupin, Chesterfield 1898, Woodburn 1872; Madison, 1898, Highland 1885; Marion, southern part 1898; Montgomery, Nokomis 1898; Perry 1885, Swanwick 1898; Pike, Barry 1898, Pittsfield 1885, Pleasant Hill 1898; Pulaski, Grand Chain 1898, New Grand Chain 1898, Ullin 1898, Villa Ridge 1898; Randolph, Chester 1885, Sparta 1885, 1898; Richland, Berryville 1898, Olney 1898; Saint Clair, Belleville 1898, Marissa 1898, Mascoutah 1898; Scott, Merritt 1885, Manchester 1898; Shelby, Strasburg 1898; Union 1833, 1885, Cobden 1846, 1859, 1872, 1898, Jonesboro 1898; Vermilion, Indianola 1898; Wabash, Mount Carmel 1898, Cowling 1859, 1872, 1885, 1898; Washington, Dubois 1885, 1898, Okawville 1898; Wayne, Cisne 1898; White, Grayville 1898, Phillipstown 1898; Williamson, western part 1898, Crab Orchard 1885.

INDIANA:

Bartholomew, Columbus 1898; Daviess 1898, 1924; Fayette 1898; Floyd 1898; Gibson 1924, Haubstadt 1898, Oakland City 1898, Princeton 1898; Jackson 1898; Jennings 1898; Knox, Vincennes 1898, 1911, 1924, Wheatland 1898; Montgomery 1898; Owen 1898; Pike 1924; Posey, 1924, Goose Pond 1911, Mount Vernon 1898, New Harmony 1859, 1872, 1885, 1898, Wadesville 1898; Putnam 1898; Spencer 1898; Sullivan, Eagle 1898, Sullivan 1885, 1898, 1924; Tippecanoe, La Fayette 1898; Vanderburgh, Armstrong 1898, Evansville 1898, 1924, Zipp 1898; Vigo 1898; Warrick, Chandler 1898, Newburgh 1898.

IOWA:

Lee 1898.

KANSAS:

Douglas, Lawrence 1911; Neosho 1885.

KENTUCKY:

Central Kentucky 1872; Ballard, Bandana 1898, Hinkleville 1898, Lovelaceville 1898, Ogden 1898, Oscar 1898; Barren; Butler, Berrys Lick 1898, Morgantown 1898, Woodbury 1898; Caldwell, Kelsey 1898, Princeton 1898; Calloway, Backusburg 1898, Kirksey 1924; Carlisle, Arlington 1898, Bardwell 1898, Milburn 1898; Christian, Casky 1898, Crofton 1898; Clinton, Savage 1898; Crittenden, Kelsey 1898, Leiras 1898; Daviess, Ensor 1885, 1898, Utica 1898; Fulton, Hickman 1872, 1885, 1898; Grant, Sherman 1898; Graves 1885, Lowes 1898, Mayfield 1898, Pritchard 1898, Pryorsburg 1898; Green, Thurlow 1898; Hancock, Patesville 1898, Victoria 1885, 1898; Hardin, Sonora 1898; Hickman, Clinton 1898, Moscow 1898; Hopkins, Madisonville 1898; Letcher, Flint 1898, Sergent 1898; Livingston, Lola 1898, Salem 1898; McCracken, Lamont 1898, Grahamville 1898; McLean, Congleton 1898; Marshall, Briensburg 1898, Sharp 1898; Muhlenburg, Central City 1898, Dunmor 1898; Ohio, Ceralvo 1898, Rosine 1898; Todd, Fairview 1898; Trigg, Cadiz 1885, 1898, Canton 1898; Union, Saint Vincent 1898; Webster, Golds 1898, Sebree 1898; Wolfe, Campton 1898.

LOUISIANA:

Bienville, Liberty Hill 1898; Bossier, Bellevue 1885; Caldwell 1885, Columbia 1898, Kelly 1898; Claiborne, Homer 1898; Concordia, Frogmore 1898, Panola 1898; East Carroll, 1859, 1924, Atherton 1898, Lake Providence 1885, 1898; East Feliciana, Olive Branch 1898; Franklin 1885, 1924, Baskin 1898, Crowville 1898, Liddieville 1898; Madison 1924, Ashley 1898, Tallulah 1898, Waverly 1885; Morehouse 1924, Bastrop 1898, Bonita 1898, Brodnax 1885, 1898, Mer Rouge 1898; Ouachita, Bosco 1898, Monroe 1898; Pointe Coupee, Fordoche 1898; Red River 1872, East Point 1885; Richland 1872, 1924, Archibald 1898, Goshen 1898, Rayville 1885; Saint Helena, Tinus 1898; Tangipahoa, Ponchatoula 1898; Tensas, 1924, Saint Joseph 1898; Washington 1885; West Carroll 1859, 1885, 1924, Forest 1898.

MISSISSIPPI:

Most of State 1820; Adams 1898; Alcorn, 1924, Corinth 1885, Kossuth 1898, Rienzi 1885, 1898; Amite 1885, Bates Mill 1898, Liberty 1898; Attala, Sallis 1898; Benton 1924, Hickory Flat 1898; Bolivar, 1924, Rosedale 1885, 1898; Calhoun, 1924, Bentley 1898, Slate Spring 1898, Pittsboro 1885; Carroll 1924, Carrollton 1859, 1872, 1885, Vaiden 1898; Chickasaw, Okolona 1885; Claiborne 1885, Port Gibson 1898; Coahoma 1924, Stovall 1898; Copiah 1924, Ashley 1885, 1898, Beauregard 1872, 1885, Hazlehurst 1833, 1846, 1859, 1872, 1885, 1898, Wesson 1898; De Soto 1859, 1924, Days 1885, Eudora 1898, Love 1898, Olive Branch 1898; Franklin 1833, 1846, 1924, Little Springs 1885, Meadville 1859, 1872, 1885, 1898, Suffolk 1911; Grenada 1924, Grenada 1898; Hancock, Claiborne 1885; Hinds, Cynthia 1898, Newman 1898, Raymond 1885, Terry 1898, Utica 1898; Holmes 1924, Bowling Green 1898, Lickens 1898, West 1911; Humphreys 1924; Issaquena, Mayersville 1885; Itawamba, Tilden 1898; Jasper; Jefferson 1898; Lafayette 1924, Burgess 1898, Oxford 1859, 1872, 1885, 1898; Lawrence, Monticello 1885, Saulsbury 1898; Leake 1924, Carthage 1885, Hopoca 1898; Lee 1924, Baldwyn 1898; Leflore 1924, Money 1898; Lincoln 1885, Fair River 1898; Lowndes, Crawford 1898; Madison 1924, Canton 1885, 1898; Marion, Jamestown 1885, 1898, Pickwick 1898; Marshall 1859, 1872, 1924,

Holly Springs 1885, 1898, Hudsonville 1885, Waites 1911; Montgomery 1885, 1924, Huntsville 1898, Kilmichael 1898, Poplar Creek 1898; Neshoba, Philadelphia 1898; Newton 1885, Chapman 1898, Decatur 1898; Oktibbeha, Maben 1898; Panola, Batesville 1898, Pleasantgrove 1898; Sardis 1872, 1885, 1898; Pike, McComb 1898; Pontotoc 1924, Ecru 1898; Prentiss 1924, Booneville 1898, Wheeler 1898; Quitman, Belen 1898, Marks 1885; Rankin 1924, Brandon 1885, Lynwood 1898; Scott 1885; Sharkey, Cary 1898; Simpson, 1898, Mount Zion 1885; Smith 1885, 1898; Sunflower 1924; Tallahatchie, Rosebloom 1898; Tate 1924, Arkabutla 1898, Senatobia 1885, 1898; Tippah 1924, Blue Mountain 1898, Ripley 1898; Tishomingo 1872, 1885; Tunica, Wanamaker 1898; Union 1924, Etta 1898, Ingomar 1898, Wallerville 1898; Warren, eastern part 1898, Redwood 1898; Washington 1924, Greenville 1898; Hollandale 1898; Webster 1924, Bellefontaine 1846, 1859, 1872, 1885, Walthall 1898; Yalobusha 1924, Coffeeville 1898; Yazoo 1924, Palmetto Home 1898.

MISSOURI:

Southern part 1924; Adair 1911; Audrain, Mexico 1885, 1898, Rush Hill 1898; Barry 1911, Cassville 1898; Benton, Zora 1898; Bollinger 1911; Boone, Columbia 1898, Rocheport 1872; Callaway, New Bloomfield 1911; Camden, Nonsuch 1911, Purvis 1911; Cape Girardeau 1833, 1846, 1911, Pocahontas 1859, 1872, 1885, Fruitland 1898, Gordonville 1898, Guardian 1898, Oak Ridge 1898; Cedar 1911, Stockton 1898; Christian 1885, 1911, Sparta 1898; Clark 1911, Alexandria 1898, Ashton 1898; Clay 1911; Clinton, Gower 1898; Cole 1911, Jefferson City 1898; Cooper 1911, New Lebanon 1898, New Palestine 1898; Crawford 1911; Dade 1885, Greenfield 1898; Dallas 1885, Spring Grove 1898; Dent 1911, Gladden 1898; Douglas 1911, Beaver 1885, Cold Spring 1898, Denlow 1898; Dunklin 1911; Franklin 1911; Gasconade 1911, Bay 1898, Bland 1898, Hermann 1885, Stony Hill 1898; Greene 1911, 1885, Nichols 1898, Springfield 1898, Willard 1898; Hickory 1911, Elkton 1898, Wheatland 1885; Howard 1911; Howell 1911, Westplains 1898; Iron, Ironton 1898; Jasper 1911; Jefferson 1911, Belew's Creek 1885, De Soto 1898; Johnson 1885, Holden 1898; Knox 1885, Novelty 1898; Lafayette 1911; Lawrence 1911, Pierce City 1885; Lewis, northwestern part 1898; Lincoln 1911; Linn, Marceline 1898; Maries 1911, Vancleve 1898; Marion 1911; Mercer 1911; Miller 1911, Ulman 1898; Mississippi 1911; Montgomery 1911; Morgan, Gladstone 1898; New Madrid, Morehouse 1898, Point Pleasant 1872, 1885, 1898, Ristine 1898; Newton 1911; Oregon 1911; Osage, Boeger's Store 1885, Chamois 1898, Linn 1898; Ozark, Igo 1898; Pemiscot, Cooter 1898; Perry 1885, Claryville 1898, Perryville 1898; Pettis 1885, 1911; Phelps 1911, St. James 1898; Pike 1911; Polk 1885, Aldrich 1898; Pulaski 1911, Big Piney 1898, Hancock 1898, Richland 1898; Putnam 1911; Ralls 1911; Reynolds 1911, McDoe 1898; Ripley 1911; Saint Charles 1911, Gilmore 1898, Westalton 1898; Saint Clair 1911, Lowry City 1898; Saint Francois, Bismarck 1898, Iron Mountain 1898; Saint Louis, Carondelet 1872, Creve Couer 1898, Eureka 1872, Kirkwood 1872, 1885, Saint Louis 1885; Saline 1911; Schuyler 1911; Scotland 1898, 1911; Scott 1885, Commerce 1911, Sikeston 1911; Shelby 1911; Stone 1911; Sullivan 1911; Taney 1885, 1898, Cedarcreek 1911; Texas, 1911, Stanford 1898, Summersville 1885; Warren 1885, 1911, Holstein 1898, Tuque 1898, Wright City; Washington 1885, 1911, Cadet 1898, Hulsey 1898, Summit 1898; Webster 1885, 1911, Niangua 1898, Seymour 1898; Wright 1911.

OHIO:
Hamilton 1898.

SOUTH CAROLINA:
Edgefield 1872.

TENNESSEE:
Benton 1911, Big Sandy 1898, Camden 1898, Garfield 1885; Carroll 1911, Huntingdon 1885, Post 1898, Westport 1898; Cheatham 1911; Chester 1911, Henderson 1898, Mifflin 1885, Sweetlips 1898; Crockett 1885, 1911, Chestnut Bluff 1898; Davidson 1885, 1911; Decatur, Decaturville 1885, 1911, Oak View 1898, Parsons 1898; Dickson 1885, 1898, 1911; Dyer 1911, Dyersburg 1898, Finley 1885, 1898, Heloise 1898, Newbern 1898, Templeton 1898; Fayette 1911, La Grange 1872, 1885, Lambert 1898, Somerville 1898, Williston 1898; Gibson 1885, 1911, Fruitland 1898, Nebo 1898; Hardeman 1911, Grand Junction 1872, 1885, New Castle 1898, Whiteville 1859, 1872, 1885, 1898; Hardin 1911, Nixon 1898, Olivehill 1885, Saltillo 1898; Haywood 1911, Nut Bush 1885, 1898, Stanton 1898; Henderson 1872, 1911, Atkins 1898, Lexington 1885, Luray 1885, 1898, Reagan 1898; Henry 1911, Northfork 1898; Hickman 1911; Naomi 1898; Humphreys 1911, Box 1885, Waverly 1898; Lake 1911, Darnall 1885, Tiptonville 1898; Lauderdale 1911, Henning 1885, Orysa 1872, 1885, 1898, Ripley 1833, 1846, 1859, 1872, 1885, 1898; Lewis 1911, Napier 1898; McNairy 1911, Adamsville 1885, 1898; Madison 1911, Claybrook 1885, 1898, Jackson 1872, Malesus 1898, Medon 1898; Maury 1885, 1911; Montgomery, Carbondale 1898; Obion 1885, 1911, D'Armend 1898, Harris 1898, Kenton 1898; Perry 1911, Farmers Valley 1898, Lobelville 1898; Robertson 1872, 1885; Rutherford 1911, Murfreesboro 1898; Shelby 1911, Arlington 1898, Capleville 1898, Dexter 1898, Memphis 1859, 1872, 1898, Ramsey 1885; Stewart 1911, Bear Spring 1898, Lesbia 1898; Tipton 1885, 1911, Atoka 1924, Covington 1859, 1898, Gainsville 1898, Mason 1924, Tipton 1898; Wayne 1911, Clifton 1898; Weakley 1911, Dresden 1885, 1898, Peck 1898; Williamson 1911.

Brood XI of the 17-year race of the periodical cicada is well authenticated only in Massachusetts and Connecticut. Records from other States are more or less problematical and need confirmation.

Following is a list of the records to the Insect Pest Survey on the occurrence of this brood:

CONNECTICUT:
Hartford, Glastonbury 1818, 1835, 1852, Hartford 1903, Suffield 1869, 1886; Windham, Ashford 1886.

DISTRICT OF COLUMBIA:
Woodridge 1920.

ILLINOIS:
Kankakee, Kankakee 1886.

INDIANA:
Fulton 1869; Saint Joseph, Walkerton 1886; Union 1886.

MASSACHUSETTS:

Bristol 1784, Fall River 1767, 1784, 1801; 1818; 1835; 1852, 1869, Freeton 1818, 1835, 1852, 1869; Franklin Deerfield 1767, 1784, 1801, 1818, 1835, 1852; Hampshire 1767, 1784, 1801, 1818, 1835, 1852, Hadley 1818.

PENNSYLVANIA:

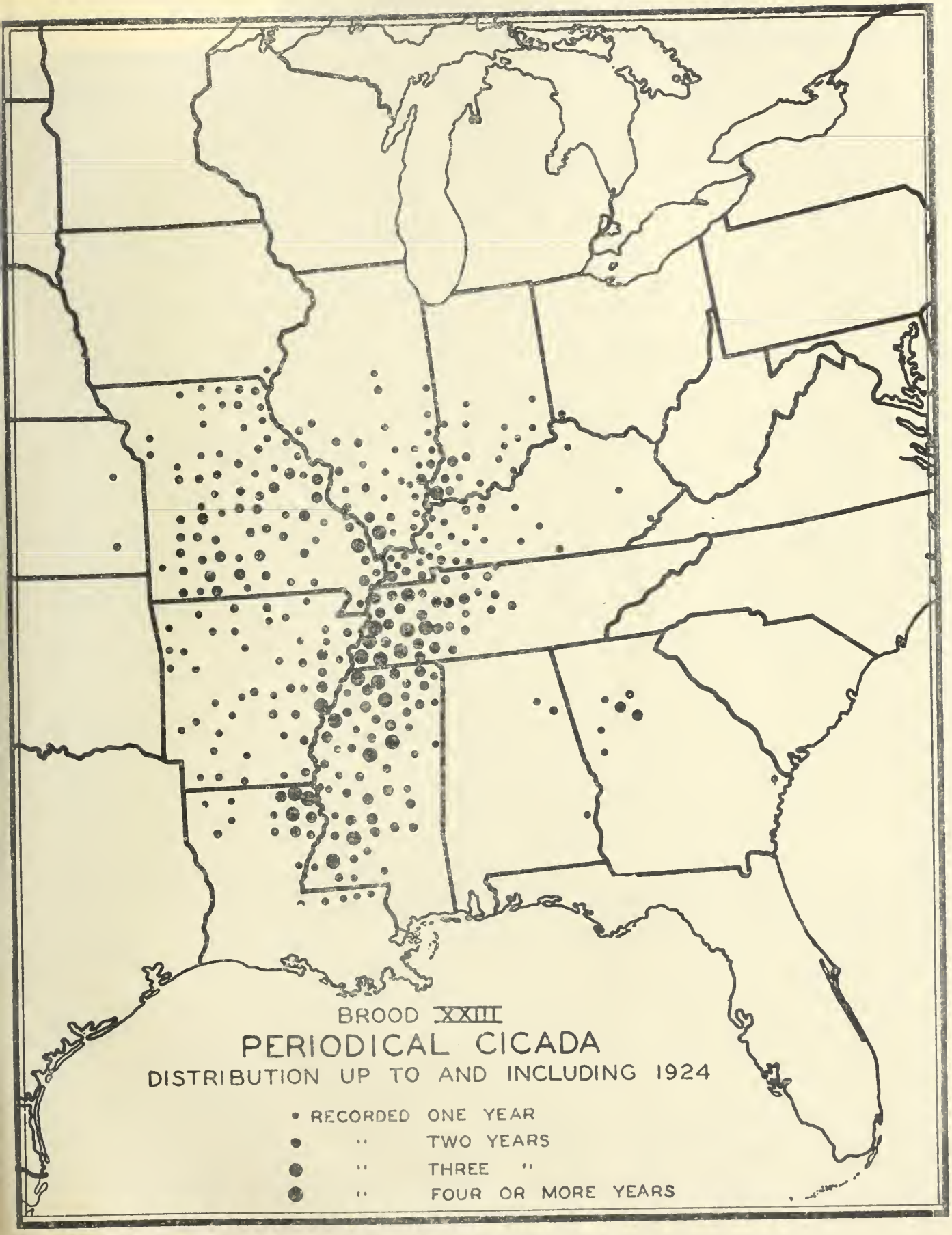
Lancaster, Lancaster 1903.

RHODE ISLAND:

Providence, near Tiogue Reservoir 1869, 1903.

WEST VIRGINIA:

Fayette, Russellville 1852.


BROOD XXIII
PERIODICAL CICADA
DISTRIBUTION UP TO AND INCLUDING 1924
• RECORDED ONE YEAR
" TWO YEARS
" THREE "
" FOUR OR MORE YEARS

UNIVERSITY OF FLORIDA
3 1262 09244 6953